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Section 1 Account of Type and Parameter of Capability

model	Type of printer head	Dot/Line	Chinese character/Line	Character/Line	Width of paper/(mm)	Speed(line/sec.)	Interface connection
A52Z00-20E1P5 A32Z00-20E1P5 T12Z00-20E1P5	M-150 II	96	8	16	44	1	Parallel Interface
A52Z00-20E125 A32Z00-20E125 T12Z00-20E125	M-150 II	96	8	16	44	1	Serial Interface
A52Z10-20E1P5 A32Z10-20E1P5 T12Z10-20E1P5	M-160	144	12	24	57	0.7	Parallel Interface
A52Z10-20E125 A32Z10-20E125 T12Z10-20E125	M-160	144	12	24	57	0.7	Serial Interface



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A52Z20-20E1P5 A32Z20-20E1P5 T12Z20-20E1P5	M-164	240	20	40	57	0.4	Parallel Interface
A52Z20-20E125 A32Z20-20E125 T12Z20-20E125	M-164	240	20	40	57	0.4	Serial Interface

NOTE:A—faceplate style , T—platform style

Power Supply: DC 5V±5% , 1.5A Temperature:0~40℃ Relative Humidity:20~85%

Power Connection



1 2 3

Faceplate style



Platform style

Indicates:

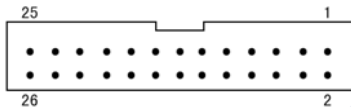
Faceplate style: pin 1 is positive pole(+), pin 2 is empty, pin 3 is negative pole (-)

Platform style: the column end is positive pole (+), the board end is negative pole (-)



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The pin order of both panel and platform style parallel port is shown as follow:



interface definition of faceplate style



interface definition of platform style

The pin definition of parallel interface is shown as follow

faceplate style	platform style	signal	direction	description
1	1	STB	in	Strobe pulse to latch data. reading occurs at the rising edge.
3	2	DATA1	in	These signals represent the 1~8 bit of the parallel data. Each signal is at HIGH level when data is logic 1 ,and LOW when data is logic 0.
5	3	DATA2	in	
7	4	DATA3	in	
9	5	DATA4	in	
11	6	DATA5	in	
13	7	DATA6	in	



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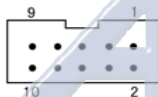
15	8	DATA7	in	
17	9	DATA8	in	
19	10	-ACK	out	Answering pulse ,LOW level signal indicates that data have already been received and the printer is ready for the next data.
21	11	BUSY	out	HIGH level signal indicates that the printer is BUSY and can not receive data.
23	12	PE	out	connect to GND
25	13	SEL	out	Pulling up to HIGH level signal by a resister indicates that the printer is online
4	15	-ERR	out	Pulling up to HIGH level signal by resister inside, it indicates that the printer is online
2,6,8,26	14,16,17		--	NC
10-24 (the even one)	18-25	GND	---	grounding

NOTE: (1) 'in' denotes input to the printer, "out" denotes output from the printer. (2)signal level is TTL standard

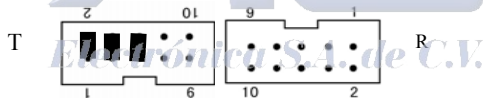
2.2 the pin order of serial port

The panel style serial port are two forms:

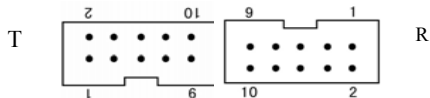
i : **There is RS232 logical signal level :**



ii: This series printer has two kinds of logical signal level: TTL and RS232



Interface of RS232 logical signal level



Interface of TTL logical signal level



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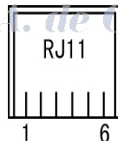
Indicate: when users need to use the interface of RS232 logical signal level, please fix the jumper on the T interface, and the R interface is the interface with RS232 logical signal level. When need to use the interface of TTL logical signal level, the T interface is the interface with TTL logical signal level and the R interface is left unused.

The interface definition of platform style:

There are two kinds of interface of the platform style: RJ45 and DB25



DB25



RJ45

There are also two kinds of logical signal level of the Platform style: TTL and RS232



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Please change the logical signal level of the interface between the TTL and the RS232 according to the following :



The pin assignment of serial interface mode is shown as following.

Panel style	Platform style(RJ45)	Platform style(DB25)	signal	direction	description
5	2	2	RXD	In	receiving data from the CPU
3	3	3	TXD	out	Printer transmits control code to PC when using X-on/X-off handshaking protocol
6	4	5	BUSY	out	HIGH level signal indicates that the printer is BUSY and can not receive datas.



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2	—	4	as(BUSY)	out	As BUSY (when TTL ,this pin is not used.)
9	5	7	GND	—	Signal Ground

NOTE: (1) ‘in’ denotes input to the printer, “out” denotes output from the printer.

(2) Logical signal level is EIA or TTL.

The ways to change the printer's baud rate and configuration mode:

- 1、 Press SEL or LF button and hold, power the printer at one time, after the printer printing the setting report, the baud rate and configuration mode could be changed.
- 2、 Press LF button to change the baud rate of the printer. The baud rate would be changed one time after press LF button. The range of the baud rate:1200、 2400、 4800、 9600、 19200. default is 9600.
- 3、 Press SEL button to change the configuration mode. There are two kinds of the



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configuration mode: mode 1 and mode 3. default is mode 1.

The data structure of serial interface is as the following shows:

Mode 1:

Start Bit	Data Bit	Stop
1 bit	8bits	1 bit

Mode 3:

Start Bit	Data Bit	Parity Bit	Stop
1 bit	8bits	1 bit	1 bit

4、 Please repower the printer after a new setting.



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Section 3 Print Commands

WH series printer provide many kinds of commands, which master the printer head to realize its function. The command is compatible with other printers' that is popular in the market.

Part ONE selecting character set

4-1-1 Select Character Set I

Format: ASC II: ESC 6
 Dec: 27 54
 Hex: 1B 36

Explanation:

All characters following this command are printed using the character set I . It contains 224 character(6*8). Address rang from 20H to FFH and include ASC II character and many graphic symbols.

4-1-2 Select Character Set 2

Format: ASC II: ESC 7
 Dec: 27 55
 Hex: 1B 37

Explanation:

All character following this command is printer out according the address in set 2.It contains 224 character .Address rang from 20H to FF H and include German, French, Russian, Japanese, Katakana and so on.

4-1-3 Select Chinese Character (12*12)

ASCII: ESC 8



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Dec: 27 56

Hex: 1B 38

The command forces the printer to be at the Chinese character mode. At this mode the printer will find the Chinese character model at the GB I II according to the code received. Print it out when find it, characters.

Part Two Paper Feeding Commands

4-2-1 Feed Line

Format: ASCII: LF

Dec: 10

Hex: 0A

Explanation:

Content in the buffer will be carried out after this command. The paper feeds in for a new line. The length is the high of one character and the distance rows between.

4-2-2 n Dot Line Feed

Format: ASCII: ESC J n

Dec: 27 74 n

Hex: 1B 4A n

Explanation:

The printer feeds paper n dot lines. N=0~255. This command sends carriage return and feed line. It won't influence the latter feed line command.

4-2-3 Set n Dot-line Spacing

Format: ASCII: ESC 1 n

Dec: 27 49 n

Hex: 1B 31 n

Explanation:

The space between lines are n dots after this command (The dot number is unconditional and can't be affected by enlarging command.) $1 \leq n \leq 255$. The original setting: n=3.



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4-2-4 set the space between characters

Format: ASCII: ESC SP n
 Dec: 27 32 n
 Hex: 1B 20 n

This command sets the space between characters n dots (The dot number is unconditional and can't be affected by enlarging command.) $1 \leq n \leq 255$. The original setting: n=0.

4-2-5 Feed Page

Format: ASCII: FF
 Dec: 12
 Hex: 0c

Explanation:

Feed paper to the beginning of the next page

Part Three Format Setting Commands

4-3-1 Set Page Length

Format: ASCII: ESC C n
 Dec: 27 67 n
 Hex: 1B 43 n

Explanation:

The page length is set to n character lines. n = 0~255, when n = 0, the page length is 256 lines. Default n = 40.

4-3-2 Set Binding Length

Format: ASCII: ESC N n
 Dec: 27 78 n
 Hex: 1B 4E n

Explanation:

The binding length is set to n lines. n = 0~255, default n = 0. Binding length denotes the number of blank line between one page and the next page

4-3-3 Cancel Binding Length

Format: ASCII: ESC O



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Dec: 27 79

Hex: 1B 4F

Explanation:

The binding lengths is set to 0 line, it means the printer will print line-by-line, won't vacate blank lines between each page.

4-3-4 Set Vertical Tab Value

Format: ASC II: ESC B n1 n2 n3.....NUL

Dec: 27 66 n1 n2 n3.....0

Hex: 1B 42 n1 n2 n3.....00

Explanation:

The vertical tab positions are entered as n1, n2 and so on, The total number of position is 8, all of these should be within the page length set by ESC C command.

For example, when n1 = 3, paper will feed in to the 3rd. unit line after "VT" command. The height of unit line is

the sun of 8 dots and characters between, and is unconditional. Command NUL added at the end indicates the command is over.

All vertical tab positions that input can be deleted by using this command in ESC B NUL format.

VT command is to carry out vertical tab , the paper fed to the next vertical position.

4-3-5 Carry out Vertical Tab Value

Format: ASC II: VT

Dec: 11

Hex: 0B

Explanation:

Feed paper to the next vertical tab position which is set by ESC B command.

Notice: if there is no vertical tab value setting, or the current position equals or is beyond the last vertical tab



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position, VT command is to feed paper one line only (same to LF command).

4-3-6 Set Horizontal Tab Value

Format: ASC II : ESC D n1 n2 n3...NUL
 Dec: 27 68 n1 n2 n3...0
 Hex: 1B 44 n1 n2 n3...00

Explanation:

The tab positions are entered as n1, n2 and so on, the total number of position is 8, and all of these should be within the line width of this model printer.

For example, when n1 = 3, paper will feed in to the 3rd. unit line after "HT" command. The width of each step is the sum of width of character matrix and dots characters between horizontal. Command NUL added at the end indicates the command is over.

All horizontal tab positions that set can be deleted by

using this command in ESC D NUL format.

4-3-7 Carry out Horizontal Tab Value

Format: ASC II : HT
 Dec: 9
 Hex: 09

Explanation:

The print position is advanced to the next horizontal tab position which is set by ESC D command.

If there is no horizontal tab value setting, or the current position equals or is beyond the last horizontal tab position, HT command won't be carried out.

4-3-8 Print Blank Character or Lines

Format: ASC II : ESC f m n
 Dec: 27 102 m n
 Hex: 1B 66 m n



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Explanation:

When $m = 0$, ESC f NUL n will command to print n blank characters, the value of n should be within the line width of this model printer.

When $m = 1$, ESC f SOH n will command to print n blank lines. $n=0\sim 255$.

4-3-9 Set Right Margin

Format: ASC II : ESC Q n
 Dec: 27 81 n
 Hex: 1B 51 n

Explanation:

N value means n -characters blank space on the right side will be left. Each character space is the sum of width of the character matrix and the horizontal space between. The value of n should be in the range from 0 to the line width of this model printer.

Default $n = 0$, that means no right margin.

4-3-10 Set Left Margin

Format: ASC II : ESC 1 n
 Dec: 27 108 n
 Hex: 1B 6C n

Explanation:

N value means n -characters blank space on the left side will be left. Each character space is the sum of width of the character matrix and the horizontal space between. The command is relative to the enlarging command.

Default $n = 0$, that means no left margin.

Part Four Character Setting Commands

4-4-1 Enlarge Width

Format: ASC II : ESC U n
 Dec: 27 85 n



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Hex: 1B 55 n

Explanation:

The characters and graphics following this command are printed at n times of normal width, n=1~4, default n=1, that means normal width, no width enlarging.

4-4-2 Enlarge Height

Format: ASC II : ESC V n
 Dec: 27 86 n
 Hex: 1B 56 n

Explanation:

The characters and graphics following this command are printed at n times of normal height, n= 1~4, default n=1.

4-4-3 Enlarge character one time

Format: ASC II : FS W n
 Dec: 28 87 n

Hex: 1c 57 n

Explanation:

When n=1, the characters and graphics following this command are printed at one times of normal width and height. When n=0, characters and graphics are printed as normal.

4-4-4 Enlarge Width and Height in n times

Format: ASC II : ESC W n
 Dec: 27 87 n
 Hex: 1B 57 n

Explanation:

The characters and graphics following this command are printed at n times of normal width and height, n=1~4, default n=1.

4-4-5 Enlarge Width and height in different times

Format ASCII: ESC X n1 n2



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Dec: 27 88 n1 n2

Hex: 1B 58 n1 n2

Explanation:

After the command, The character would be enlarged n1 times in width and n2 times in height. n1=1~4, n2=1~4, Default :n1=n2=1.

4-4-5 Enlarge two times of Width

Format: ASC II : SO

Dec: 14

Hex: OE

Explanation:

The characters and graphics following this command are printed at two times of normal width.

4-4-6 No enlarge in width

Format: ASC II : DC4

Dec: 20

Hex: 14

Explanation:

The characters and graphics following this command are printed at normal width.

4-4-7 Select/cancel Underline Print

Format: ASC II : ESC - n

Dec: 27 45 n

Hex: 1B 2D n

Explanation:

When n=1, select underline print; when n=0, cancel underline print.

All characters including spaces will be printed out with underline after selecting underline print command. Default n=0.



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4-4-8 Select/cancel Up-line Print

Format: ASC II: ESC + n
 Dec: 27 43 n
 Hex: 1B 2B n

Explanation:

When n=1, select up-line print ; when n=0, cancel up-line after selecting up-line print command, unless cancel the up-line print command. Default n=0.

4-4-9 Select/cancel Reverse White Print

Format: ASC II: ESC i n
 Dec: 27 105 n
 Hex: 1B 69 n

Explanation:

When n=1, select reverse white print; when n=0, cancel reverse white print. Reverse white print is printing in the black background, just like the film of photography. It is normal print that printing black characters in white

background, it is selected at power on or on ESC @ command.

4-4-10 Select/cancel Reverse Print

Format: ASC II: ESC c n
 Dec: 27 99 n
 Hex: 1B 63 n

Explanation:

Type Ax: When n=0, select reverse print, printing from right to left. When n=1, cancel reverse print, printing from left to right.

When the printer is assembled vertically, it is convenient to read the word reversely so its initial value is 1.

Type Ax: default n=1 Type Tx : default n=0

4-4-11、set printing direction

Format: ASCII: ESC e n
 Dec: 27 101 n



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Hex: 1B 65 n

After this command printing direction can be changed.

n=1, print from right to left; n=0, print left to right.

Default: n=1.

Part five User-defined Character Setting Commands

4-5-1 User-defined Characters

Format: ASC II: ESC & m n1 n2...n6

Dec: 27 38 m n1 n2...n6

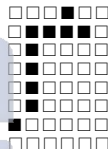
Hex: 1B 26 m n1 n2...n6

Explanation:

This command allows a character to be defined, parameter m is the code of user-defined character, m=32~61. Parameter n1,n2...n6 are the structure codes of user-defined character. The character size is 6*8 dots. Each row is denoted by one byte data, the high bit

is on the top as Fig shows:

high bit D7:



low bit D0:



If many ESC & command use the same m value, the last definition is effective. The total number of user-defined character is 30.

4-5-2 Replace with User-defined Characters

Format: ASC II: ESC % m1 n1 m2 n2...mk nk NUL

Dec: 27 37 m1 n1 m2 n2...mk nk 0

Hex: 1B 25 m1 n1 m2 n2...mk nk 00

Explanation:

This command is used to replace the character n with the user-defined character m, and the user-defined character



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m will be printed out as the replacement of character n.

M1, m2.....mk are the codes of user-defined characters.

N1,n2.....nk are codes of characters in the current character set – the replaced characters.

The values of m and n both should be in the range 32 to 255. The subscript K=1~32, the maximum number of replaced characters is 32.

Character NUL added to the end means the command is over.

4-5-3 Restore Characters that in Character Set

Format: ASC II: ESC :

Dec: 27 58

Hex: 1B 3A

Explanation:

This command is used to restore the original characters in the character set replaced by user-defined characters

using ESC % command.

Part Six Print bit-map graphics

4-6-1 Print bit-map graphics

Format: ASC II: ESC K n1 n2...data...

Dec: 27 75 n1 n2...data...

Hex: 1B 4B n1 n2...data...

Explanation:

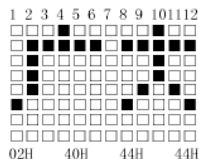
This command is used to print n1*8 bit map. The width of this graphics is n1 dots and the height is 8 dots. Each column has 8 dots and can be presented by a 8-bit byte, the MSB is on the top.

The values of n1,n2 denote a 16-bit binary data, n1 is LSB, n2 is MSB, n2*256+n1 denotes the width of this printing graphics, Because the width of printer is less than 256, so n2=0, n1 should be in the range from 1 to the max. dots number of each line of this model printer.



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Data are the bytes of relative columns in the graphics sequential from left to right, the number of bytes should equal n_1 , when the height of the graphics is larger than 8 dots, it can be marked off several units according to 8 dot lines for each graphic unit. When the dots are fewer than 8, use blank dots to make up it, then print out every graphic unit with ESC K command orderly, at last compose an intact graphics.



4-6-2 Print Curve

Format: ASC II : ESC ' m n_1 n_2 ... n_k CR
 Dec: 27 39 m n_1 n_2 ... n_k 13
 Hex: 1B 27 m n_1 n_2 ... n_k 0D

Explanation:

This command is designed to print curving graphics along with the paper feeding direction. The value of m is the line number of the printing curve, it should be within the range of the max. dots number of each line of this model printer.

There are m curving dots in one horizontal line. N_1 , n_2 ... n_k denote the position of m curves. The value of n_k should equal m and each n_k should be within the range of the max. dots number of each line of this model printer. The last CR lets the printer print out the current dot line, so a set of dot lines will be printed out form m -line curving graphics based on the data of n_1, n_2 ... N_k .

4-6-3 print barcode

Format: ASCII: ESC E n_q n_c n_1 n_2 n_3 ... n_k NUL
 Dec: 27 69 n_q n_c n_1 n_2 n_3 ... n_k 0
 Hex: 1B 45 n_q n_c n_1 n_2 n_3 ... n_k 00



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This command is designed to print barcode.

Nq: the distance between the first line of barcode and paper edge. (dot), $0 \leq n \leq 64$.

Nc: the height of barcode (dot), $1 \leq n \leq 255$.

Mk: parameter of line k

The highest 4 bit(D7-D4):The dots between the k line and the k-1 of barcode. $0 \leq n \leq 15$

The lowest 4 bit(D3-D0):the width of barcode line k (dot), $1 \leq n \leq 15$.

K: the number of barcode line, $1 \leq k \leq 40$.

PART Seven Initialization Commands

4-7-1 Initialize Printer

Format: ASC II: ESC @

Dec: 27 64

Hex: 1B 40

Explanation:

This command is used to initialize the printer. There are three ways we can initialize the printer :

(1) use the command ESC @

(2) re-power the printer

(3) checkout the printer

What have be done by the initializing command:

(1) clean the data in the buffer;

(2) all characters won't be enlarged;

(3) cancel up-line, underline and white print;

(4)Type Ax: select reverse print. Chinese characters will be printed out from right to the left

Type Tx: Cancel reverse print. Chinese characters will be printed out from left to the right.

(5) Vertical space between characters is set to 2-dot line.

Level space between characters is set to 0-dot

The length of page is set to 40 lines

The binding length is set to 0 line.



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Part eight Data Control Commands

4-8-1 Carriage return

Format: ASC II: CR
 Dec: 13
 Hex: 0D

Explanation:

If a "CR" command is sent to printer the total data in the print buffer will be printed out and paper will be fed for one line forwards.

4-8-2 Cancel One Line

Format: ASC II: CAN
 Dec: 24
 Hex: 18

Explanation:

This command is to cancel all the characters in the print buffer before this command code. It doesn't cancel any

control code sequences in the current line.

3-8-3 Allow/forbid printer process data

Format: ASCII: ESC d n
 Dec: 27 100 n
 Hex: 1B 64 n

When n=0, forbid the data received, and all the commands received are of no effect; When n=1, Allow the data received.

Default n=1.

4-9-1 Set Vertical Print

Format: ASC II: FS J
 Dec: 28 74
 Hex: 1c 4A

Explanation:

This command is to print Chinese characters vertically, namely printing by rotating widdershins for 90°.

4-9-2 Set Horizontal Print



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Format: ASC II: FS K
 Dec: 28 75
 Hex: 1c 4B

Explanation:

This command is to print Chinese characters horizontally, canceling vertical print.

4-9-3 Set Chinese Character Rotational Print

Format: ASC II: FS I n
 Dec: 28 73 n
 Hex: 1c 49 n

Explanation:

This command is to rotate Chinese characters, the values of n are as following:

n	Chinese characters rotated widdershins
0	0°
1	90°
2	180°

4	270°
---	------

4-9-4 Select Superscript and Subscript Print

Format: ASC II: FS r n
 Dec: 28 114 n
 Hex: 1c 72 n

Explanation:

This command is to select the position for superscript and subscript, n=0 is superscript and n= 1 is subscript.

Notice: this command is only valid for 16*8, 8*8 Chinese characters and 5*7 or 6*8 ASC II characters.

4-9-5 Select Chinese Character Bit Map

Format: ASC II: FS i n
 Dec: 28 105 n
 Hex: 1c 69 n



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Explanation:

This command is to select Chinese characters with different bit map, as the following tab shows:

n	Chinese Character Bit Map
0	16*16
1	8*16
2	16*8
3	8*8

4-9-6 Select Chinese Character Misplace Print

Format: ASC II: FS G
 Dec: 28 71
 Hex: 1c 47

Explanation:

This command is to set Chinese character misplace print.

The characters that put in the printer after this command

will be printed out in misplace mode, namely Chinese characters will become thicker and heavier than normal single-line ones, can be used for printing titles or printing heavily

4-9-7 Cancel Chinese Character Misplace Print

Format: ASC II: FS H
 Dec: 28 72
 Hex: 1c 48

Explanation:

This command is to cancel Chinese character misplace print that set by FS G command, and restore to normal single-line Chinese character print mode.



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Section 4 Character Set(I 、 II)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
2	!	"	#	\$	%	&	'	(	)	*	+	,	-	.	/	
3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
6	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7	p	q	r	s	t	u	v	w	x	y	z	{		}	~	
8	0	一	二	三	四	五	六	七	八	九	十	元	年	月	日	¥
9	£	¢	§	¦	→	←	±	÷	×	≈	...	°	²	³	²	³
A	α	β	γ	δ	ε	ζ	η	θ	ι	μ	υ	φ	χ	ψ	ω	
B	τ	φ	ψ	ω	Γ	Δ	Π	Σ	Ψ	Ω	Ξ	Θ	Λ	Φ	Τ	Ζ
C	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
D	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
E	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
F	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
2	百	千	万	〃	℃	℉	ℓ	4	½	¾	¼	⅓	⅔	⅕	⅖	⅗
3	//		∩	⊗	⊙	⊚	⊛	⊜	⊝	⊞	⊟	⊠	⊡	⊢	⊣	⊤
4	∴	∵	∶	∷	∸	∹	∺	∻	∼	≅	≈	≠	≡	≡	≡	≡
5	※	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
6	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
7	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠
8	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣	♣
9	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠	♠
A	И	Н	Л	Д	Ч	Ш	Щ	Ъ	Ы	Э	Ю	Я	ё	ё	ё	ё
B	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø	ø
C	Å	É	æ	Æ	Ö	ö	Ü	ü	Û	ü	Û	ü	Û	ü	Û	ü
D	í	ó	ú	ñ	Ñ	á	â	ä	å	ä	ä	ä	ä	ä	ä	ä
E	š	š	š	š	š	š	š	š	š	š	š	š	š	š	š	š
F	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ	Ÿ



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Section 5 Command table for quick consultant

commands			Function
ASC II	Dec	Hex	
ESC 6	27 54	1B 36	Select character set I
ESC 7	27 55	1B 37	Select character set II
ESC 9	27 56	1B 38	Select/cancel Chinese character print mode
LF	10	0A	Feed line
ESC J n	27 74 n	1B 4A n	Feed line n dot lines
ESC I n	27 49 n	1B 31 n	Set line spacing to n dot lines
ESC SP n	27 32 n	1B 20 n	Set character space between
FF	12	0C	Feed page
ESC C n	27 67 n	1B 43 n	Set page length to n lines
ESC N n	27 78 n	1B 4E n	Set binding length to n lines
ESC 0	27 79	1B 4F	Cancel binding length
ESC B n1 n2...NUL	27 66 n1 n2...0	1B 42 n1 n2...00	Set vertical tab value



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VT	11	0B	Carry out vertical tab
ESC D n1 n2...NUL	27 68 n1 n2..0	1B 44 n1 n2...00	Set horizontal tab value
HT	9	09	Carry out horizontal tab
ESC f m n	27 102 m n	1B 66 m n	Print blank or feed line
ESC Q n	27 81 n	1B 51 n	Set right margin width
ESC I n	27 108 n	1B 6C n	Set left margin width
ESC U n	27 85 n	1B 55 n	Enlarge width n times
ESC V n	27 86 n	1B 56 n	Enlarge height n times
FS W n	28 87 n	1C 57 n	Set the enlarging multiple of character
ESC W n	27 87 n	1B 57 n	Enlarge width and height n times
ESC X n1 n2	27 88 n1 n2	1B 58 n1 n2	Enlarge width n1 times and height n2 times
SO	14	0E	Set double width character print
DC4	20	14	Cancel SO command
ESC - n	27 45 n	1B 2D n	Select/cancel underline print
ESC + n	27 43 n	1B 2B n	Select/cancel up-line print
ESC i n	27 105 n	1B 69 n	Select/cancel reverse white print
ESC c n	27 99 n	1B 63 n	Select/cancel reverse print
ESC e n	27 101 n	1B 65 n	Set print direction
ESC &m n1 n2...n6	27 38 m n1 n2...6	1B 26 m n1 n2..6	User-defined characters



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ESC %m1 n1 m2 n2...mk nk NUL	27 37 m1 n1 m2 n2...mk nk 0	1B 25 m1 n1 m2 n2...mk nk 00	Replacing code nk is defining code mk
ESC :	27 58	1B 3A	Restore original codes
ESC k n1 n2...data...	27 75 n1 n2...data..	1B 4B n1 n2...data..	Print n1*8 bit-map graphics
ESC ' m n1 n2.. nk..CR	27 39 m n1 n2.. nk...13	1B 27 m n1 n2.. nk...00	Print m curving dots
ESC E nq nc n1 n2 n3...nk NUL	27 69 nq nc n1 n2 n3...nk 0	1B 45 nq nc n1 n2 n3...nk 00	Print bar code
ESC @	27 64	1B 40	Initialize printer
CR	13	0D	Carriage return
CAN	24	18	Cancel the characters in current line
ESC d n	27 100 n	1B 64 n	Allow/forbid printer process data
FS J	28 74	1C 4A	Set vertical print
FS K	28 75	1C 4B	Set horizontal print
FS I n	28 73 n	1C 49 n	Set character rotational print
FS r n	28 114 n	1C 72 n	Select superscript and subscript
FS G	28 71	1C 47	Select Chinese character misplace print
FS H	28 72	1C 48	Cancel Chinese character misplace print